```
EEEEEEEEEEEEEEEEE MMM      MMM UUU      UUU LLL                AAAAAAAAA  TTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEEE MMM      MMM UUU      UUU LLL                AAAAAAAAA  TTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEEE MMM      MMM UUU      UUU LLL                AAAAAAAAA  TTTTTTTTTTTTTTT
EEE               MMMMMM MMMMMM UUU      UUU LLL            AAA       AAA       TTT
EEE               MMMMMM MMMMMM UUU      UUU LLL            AAA       AAA       TTT
EEE               MMMMMM MMMMMM UUU      UUU LLL            AAA       AAA       TTT
EEE               MMM  MMM  MMM UUU      UUU LLL            AAA       AAA       TTT
EEE               MMM  MMM  MMM UUU      UUU LLL            AAA       AAA       TTT
EEE               MMM  MMM  MMM UUU      UUU LLL            AAA       AAA       TTT
EEEEEEEEEEEE      MMM      MMM UUU      UUU LLL            AAA       AAA       TTT
EEEEEEEEEEEE      MMM      MMM UUU      UUU LLL            AAA       AAA       TTT
EEEEEEEEEEEE      MMM      MMM UUU      UUU LLL            AAA       AAA       TTT
EEE               MMM      MMM UUU      UUU LLL            AAAAAAAAAAAAAA       TTT
EEE               MMM      MMM UUU      UUU LLL            AAAAAAAAAAAAAA       TTT
EEE               MMM      MMM UUU      UUU LLL            AAAAAAAAAAAAAA       TTT
EEE               MMM      MMM UUU      UUU LLL            AAA       AAA       TTT
EEE               MMM      MMM UUU      UUU LLL            AAA       AAA       TTT
EEEEEEEEEEEEEEEEE MMM      MMM UUUUUUUUUUUUUUU LLLLLLLLLLLLLLL AAA       AAA       TTT
EEEEEEEEEEEEEEEEE MMM      MMM UUUUUUUUUUUUUUU LLLLLLLLLLLLLLL AAA       AAA       TTT
EEEEEEEEEEEEEEEEE MMM      MMM UUUUUUUUUUUUUUU LLLLLLLLLLLLLLL AAA       AAA       TTT
```

```
VV      VV   AAAAAA    XX      XX   SSSSSSSS  TTTTTTTTTT   AAAAAA    TTTTTTTTTT  UU      UU   SSSSSSSS
VV      VV   AAAAAA    XX      XX   SSSSSSS   TTTTTTTTTT   AAAAAA    TTTTTTTTTT  UU      UU   SSSSSSSS
VV      VV   AA    AA  XX    XX   SS              TT     AA    AA       TT      UU      UU   SS
VV      VV   AA    AA  XX    XX   SS              TT     AA    AA       TT      UU      UU   SS
VV      VV   AA    AA   XX  XX    SS              TT     AA    AA       TT      UU      UU   SS
VV      VV   AA    AA   XX  XX    SS              TT     AA    AA       TT      UU      UU   SS
VV      VV   AA    AA    XX      SSSSSS           TT     AA    AA       TT      UU      UU   SSSSSS
VV      VV   AA    AA    XX      SSSSSS           TT     AA    AA       TT      UU      UU   SSSSSS
VV      VV   AAAAAAAAA  XX  XX        SS          TT   AAAAAAAAA       TT      UU      UU       SS
VV      VV   AAAAAAAAA  XX  XX        SS          TT   AAAAAAAAA       TT      UU      UU       SS
 VV    VV    AA    AA  XX    XX       SS          TT     AA    AA       TT      UU      UU       SS
 VV    VV    AA    AA  XX    XX       SS          TT     AA    AA       TT      UU      UU       SS
  VV  VV     AA    AA  XX      XX  SSSSSSSS        TT     AA    AA       TT      UUUUUUUUUU  SSSSSSSS
   VV        AA    AA  XX      XX  SSSSSSSS        TT     AA    AA       TT      UUUUUUUUUU  SSSSSSSS

LL            IIIIII    SSSSSSSS
LL            IIIIII    SSSSSSSS
LL              II    SS
LL              II    SS
LL              II    SS
LL              II    SS
LL              II      SSSSSS
LL              II      SSSSSS
LL              II          SS
LL              II          SS
LL              II          SS
LL              II          SS
LLLLLLLLLL    IIIIII    SSSSSSSS
LLLLLLLLLL    IIIIII    SSSSSSSS
```

```
 1              .TITLE  VAX$STATUS - Status Definitions for VAX-11 Instruction Emulator
 2              .IDENT  "V04-000"
 3
 4      !*********************************************************************************
 5      !*                                                                              *
 6      !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                     *
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22      !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                     *
23      !*                                                                              *
24      !*                                                                              *
25      !*********************************************************************************
26
27      !++
28      !
29      ! Facility:
30      !
31      !        VAX-11 Instruction Emulator
32      !
33      ! Abstract:
34      !
35      !        This file contains status codes for exceptions that are specific
36      !        to the VAX-11 instruction emulator.
37      !
38      ! Author:
39      !
40      !        Lawrence J. Kenah
41      !
42      ! Creation Date:
43      !
44      !        23 March 1983
45      !
46      !        V01-002 LJK0021          Lawrence J. Kenah         17-Mar-1984
47      !                Add status code for DIVP internal error
48      !
49      !        V01-001 Original         Lawrence J. Kenah         23-Mar-1983
50      !                Original version of this module
51      !--
```

```
             52
             53
00000013     54        .FACILITY       VAX , 19 /SYSTEM /PREFIX=VAX$_
             55
             56        .SEVERITY       FATAL           ! All of these are fatal
             57
             58 ! The first two codes merely define exception names that are associated with
             59 ! the two exceptions defined in the microVAX architecture to support
             60 ! software emulation of the decimal and string instructions.
             61
0013800C     62        OPCDEC          <reserved opcode (code=!XL) attempted at PC=!XL> /FAO=2
             63
00138014     64        OPCDEC_FPD      <reserved opcode (code=!XL) attempted with FPD set at PC=!XL> /FAO=2
             65
             66 ! If an exception occurs and the exception dispatch logic determines that the
             67 ! emulator was not entered in a standard way, this code is appended to the
             68 ! beginning of the signal array and the new exception is reflected back to
             69 ! the VMS exception dispatcher.
             70
0013801C     71        ABORT           <exception (name=!XL) occurred after nonstandard entry into emulator
             72
             73 ! There are currently two consistency check made by the emulator that can
             74 ! result in conditions not already covered by the VAX Architecture. Both
             75 ! exceptions consist of the VAX$_INTERNAL status code followed by a longword
             76 ! code that indicates the particular consistency check that failed. Note that
             77 ! if the assumptions made by the logic in the emulator are correct, these
             78 ! errors will NEVER be generated.
             79
00138024     80        INTERNAL        <internal consistency error (type=!XL) detected by emulator> /FAO=1
             81
             82 ! The algorithm used in the subtraction of packed decimal strings makes a
             83 ! decision about the sign of the final result. This choice demands that the
             84 ! final subtraction NOT produce a borrow. If a borrow results from the final
             85 ! subtraction, this error is generated to indicate that the algorithm is in
             86 ! error.
             87
             88        .LITERAL        VAX$_SUBPx_ERROR
             89
             90 ! There are two indepdent counts of the byte count in the divisor string in
             91 ! VAX$DIVP. If these counts are inconsistent, the following error is
             92 ! generated.
             93
             94        .LITERAL        VAX$_DIVP_ERROR
             95
             96        .END

There were 0 errors, 0 warnings, and 0 informational messages issued.
MESSAGE/NOTEXT/LIS=LIS$:VAXSTATUS/OBJ=OBJ$:VAXSTATUS MSRC$:VAXSTATUS
```

VAXLOAD
LIS

ERFBRIEF
MAP

ERFPROC1
MAP

ERFDISK
MAP

ERFBUS
MAP

ERFINICOM
MAP

ERFCOMMON
MAP

VAXSTATUS
LIS

ENCRYP   ERF

ENCSTUBS   ERF
LIS   MAP

ERFPROC2
MAP

VAXSTRING
LIS